



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 22nd May 2021

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली – 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
3. कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक , द.क्षे.भा.प्रे.के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 21.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-मई -2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उपलब्ध है ।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 21st May 2021, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 22-May-2021

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	41352	45271	34655	21458	2657	145393
Peak Shortage (MW)	200	0	0	0	5	205
Energy Met (MU)	852	1090	837	455	46	3280
Hydro Gen (MU)	211	58	74	89	19	450
Wind Gen (MU)	42	117	95	-	-	254
Solar Gen (MU)*	49.06	40.03	90.41	5.01	0.15	185
Energy Shortage (MU)	3.78	0.00	0.00	0.00	0.06	3.84
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	43423	47451	39464	22159	2885	148798
Time Of Maximum Demand Met (From NLDC SCADA)	20:40	15:03	12:41	22:26	20:05	22:25

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.039	0.00	0.13	6.72	6.85	67.45	25.70

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	6848	0	137.9	96.7	-3.7	129	0.00
	Haryana	5429	0	104.1	85.5	-1.9	425	0.00
	Rajasthan	9215	0	183.7	27.8	-3.7	432	0.16
	Delhi	2757	0	58.9	49.9	-1.2	38	0.00
	UP	15584	0	265.3	126.0	-3.8	877	0.00
	Uttarakhand	1438	0	29.9	11.1	-0.4	154	0.00
	HP	1309	15	26.0	7.3	0.3	144	0.17
	J&K(UT) & Ladakh(UT)	2253	250	42.6	26.3	-4.2	50	3.45
	Chandigarh	175	0	3.8	4.3	-0.5	21	0.00
	Chhattisgarh	3738	0	86.1	35.1	-0.6	208	0.00
WR	Gujarat	13661	0	301.1	121.8	-1.3	528	0.00
	MP	8719	0	188.0	98.0	-2.6	584	0.00
	Maharashtra	20266	0	463.2	146.3	-4.2	719	0.00
	Goa	516	0	9.6	8.8	0.3	36	0.00
	DD	280	0	6.2	6.2	0.0	25	0.00
	DNH	691	0	15.9	15.8	0.1	39	0.00
	AMNSIL	889	0	19.5	2.1	0.3	227	0.00
	Andhra Pradesh	8637	0	170.7	81.9	0.4	1406	0.00
	Telangana	7197	0	154.0	62.0	0.2	446	0.00
	Karnataka	9234	0	177.8	66.7	1.4	659	0.00
SR	Kerala	3079	0	62.0	34.5	0.2	292	0.00
	Tamil Nadu	12279	0	266.3	143.5	0.6	804	0.00
	Puducherry	325	0	6.6	7.1	-0.6	48	0.00
	Bihar	5470	0	86.7	80.9	0.8	558	0.00
	DVC	2925	0	62.7	-36.0	0.1	318	0.00
	Jharkhand	1357	0	25.3	22.9	-3.0	168	0.00
	Odisha	5435	0	115.1	47.4	-0.4	272	0.00
	West Bengal	8385	0	163.7	48.2	-0.1	664	0.00
	Sikkim	88	0	1.5	1.8	-0.3	17	0.00
	Arunachal Pradesh	95	0	1.7	1.8	-0.1	60	0.01
ER	Assam	1667	0	27.2	22.2	0.1	157	0.00
	Manipur	197	2	2.5	2.4	0.1	28	0.03
	Meghalaya	304	0	5.2	3.7	-0.2	33	0.00
	Mizoram	104	0	1.7	1.7	0.0	26	0.01
	Nagaland	108	1	2.1	2.2	-0.1	13	0.01
	Tripura	327	0	5.5	4.9	0.5	119	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	20.9	-5.7	-26.0
Day Peak (MW)	1012.0	-290.0	-1106.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	165.1	-187.0	98.4	-81.7	5.2	0.0
Actual(MU)	114.5	-168.1	116.9	-70.8	5.9	-1.6
OD/UD(MU)	-50.6	18.9	18.5	10.8	0.7	-1.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6452	20373	9122	48	1259	37254	42
State Sector	14623	19879	12325	5315	11	52153	58
Total	21074	40252	21447	5363	1271	89406	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	356	1003	342	463	3	2167	64
Lignite	21	10	39	0	0	70	2
Hydro	211	58	74	89	19	450	13
Nuclear	31	31	66	0	0	128	4
Gas, Naptha & Diesel	16	24	13	0	23	76	2
RES (Wind, Solar, Biomass & Others)	110	157	199	5	0	471	14
Total	745	1282	731	557	46	3362	100

Share of RES in total generation (%)	14.77	12.27	27.14	0.90	0.33	14.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	47.24	19.14	46.21	16.91	41.83	31.20

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.082

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 22-May-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	197	610	0.0	3.4	-3.4	
4	765 kV	SASARAM-FATEHPUR	1	40	222	0.0	1.6	-1.6	
5	765 kV	GAYA-BALIA	1	112	463	0.0	4.2	-4.2	
6	400 kV	PUSAULI-VARANASI	1	0	220	0.0	4.4	-4.4	
7	400 kV	PUSAULI -ALLAHABAD	1	0	88	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	589	0.0	9.1	-9.1	
9	400 kV	PATNA-BALIA	4	0	876	0.0	11.6	-11.6	
10	400 kV	BIHARSHARIFF-BALIA	2	54	230	0.0	4.1	-4.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	342	0.0	5.6	-5.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	119	245	0.0	1.0	-1.0	
13	220 kV	PUSAULI-SAHUPURI	1	85	49	0.0	1.0	-1.0	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	55.3	-53.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1047	0	16.4	0.0	16.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1067	309	14.1	0.0	14.1	
3	765 kV	JHARSUGUDA-DURG	2	61	39	0.8	0.0	0.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	252	74	1.5	0.0	1.5	
5	400 kV	RANCHI-SIPAT	2	276	91	3.3	0.0	3.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	4	88	0.0	0.9	-0.9	
7	220 kV	BUDHIPADAR-KORBA	2	103	0	1.5	0.0	1.5	
						ER-WR	37.5	0.9	36.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	287	0.0	6.1	-6.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1634	0.0	37.1	-37.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2679	0.0	50.3	-50.3	
4	400 kV	TALCHER-I/C	2	524	638	0.0	5.1	-5.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	93.5	-93.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	279	90	1.6	0.0	1.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	246	211	0.4	0.0	0.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	32	47	0.0	0.2	-0.2	
						ER-NER	2.0	0.2	1.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALL-AGRA	2	406	0	7.0	0.0	7.0	
						NER-NR	7.0	0.0	7.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2260	0.0	18.9	-18.9	
2	HVDC	VINDHYACHAL B/B	-	203	202	3.2	0.0	3.2	
3	HVDC	MUNDA-MOHENDERGARH	2	0	982	0.0	16.1	-16.1	
4	765 kV	GWALIOR-AGRA	2	147	2408	0.0	30.9	-30.9	
5	765 kV	PHAGI-GWALIOR	2	0	1193	0.0	14.3	-14.3	
6	765 kV	JABALPUR-ORAI	2	809	850	0.0	21.7	-21.7	
7	765 kV	GWALIOR-ORAI	1	455	0	8.0	0.0	8.0	
8	765 kV	SATNA-ORAI	1	0	1408	0.0	26.2	-26.2	
9	765 kV	CHITORGARH-BANASKANTHA	2	925	122	7.8	0.1	7.7	
10	400 kV	ZERDA-KANKROLI	1	340	0	4.6	0.0	4.6	
11	400 kV	ZERDA -BHINMAL	1	619	0	9.0	0.0	9.0	
12	400 kV	VINDHYACHAL -RIHAND	1	966	0	21.4	0.0	21.4	
13	400 kV	RAMP-SHIVAJI PUR	1	307	350	1.8	1.7	0.2	
14	220 kV	BHANPURA-RANPUR	1	0	78	0.0	1.2	-1.2	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8	
16	220 kV	MEHGAON-AURAIYA	1	110	32	0.3	0.2	0.1	
17	220 kV	MALANPUR-AURAIYA	1	81	38	0.7	0.1	0.6	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	56.7	132.0	-75.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	711	0.0	12.3	-12.3	
2	HVDC	RAIGARH-PUGAUR	2	0	1500	0.0	25.2	-25.2	
3	765 kV	SOLAPUR-RAICHUR	2	1298	1166	5.4	7.8	-2.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	1863	0.0	26.6	-26.6	
5	400 kV	KOLHAPUR-KUDGI	2	584	0	8.1	0.0	8.1	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	1	0	71	1.3	0.0	1.3	
						WR-SR	14.8	71.9	-57.1
INTERNATIONAL EXCHANGES									
						Import(+ve)/Export(-ve) Energy Exchange (MU)			
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)				
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR 1&2 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	458	0	418	10.0			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	407	0	334	8.0			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	116	0	88	2.1			
	NER	132KV-GEYLEGPHU - SALAKATI	-14	1	4	0.1			
	NER	132KV Motanga-Rangia	46	23	-33	-0.8			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-70	0	-32	-0.8			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	275	34	-183	-4.4			
	ER	132KV-BIHAR - NEPAL	-131	-1	-22	-0.5			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-936	0	-934	-22.4			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-85	0	-75	-1.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-85	0	-75	-1.8			